

Chengju Liu

List of Publications by Year in descending order

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51
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552
citing authors

#	ARTICLE	IF	CITATIONS
1	CPG-Inspired Workspace Trajectory Generation and Adaptive Locomotion Control for Quadruped Robots. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 867-880.	5.0	120
2	Central Pattern Generator Inspired Control for Adaptive Walking of Biped Robots. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 1206-1215.	9.3	61
3	Survey of locomotion control of legged robots inspired by biological concept. Science in China Series F: Information Sciences, 2009, 52, 1715-1729.	1.1	60
4	Focal Loss in 3D Object Detection. IEEE Robotics and Automation Letters, 2019, 4, 1263-1270.	5.1	42
5	PointTrackNet: An End-to-End Network For 3-D Object Detection and Tracking From Point Clouds. IEEE Robotics and Automation Letters, 2020, 5, 3206-3212.	5.1	42
6	A New Design of Membership-Function-Dependent Controller for T-S Fuzzy Systems Under Imperfect Premise Matching. IEEE Transactions on Fuzzy Systems, 2019, 27, 1428-1440.	9.8	30
7	Multi-Layered CPG for Adaptive Walking of Quadruped Robots. Journal of Bionic Engineering, 2018, 15, 341-355.	5.0	26
8	A GPS-aided Omnidirectional Visual-Inertial State Estimator in Ubiquitous Environments. , 2019, , .		25
9	CPG driven locomotion control of quadruped robot. , 2009, , .		23
10	Adaptive walking control of biped robots using online trajectory generation method based on neural oscillators. Journal of Bionic Engineering, 2016, 13, 572-584.	5.0	21
11	Dynamic walking control of humanoid robots combining linear inverted pendulum mode with parameter optimization. International Journal of Advanced Robotic Systems, 2018, 15, 172988141774967.	2.1	17
12	Real-Time Trajectory Planning for Autonomous Driving with Gaussian Process and Incremental Refinement. , 2022, , .		14
13	Active Balance Control of Humanoid Locomotion Based on Foot Position Compensation. Journal of Bionic Engineering, 2020, 17, 134-147.	5.0	12
14	Energetic walking gaits studied by a simple actuated inverted pendulum model. Journal of Mechanical Science and Technology, 2018, 32, 2273-2281.	1.5	11
15	Robust Control of Semi-passive Biped Dynamic Locomotion based on a Discrete Control Lyapunov Function. Robotica, 2020, 38, 1345-1358.	1.9	11
16	Coupled Van Der Pol oscillators utilised as Central pattern generators for quadruped locomotion. , 2009, , .		9
17	Adaptive walking control of quadruped robots based on central pattern generator (CPG) and reflex. Journal of Control Theory and Applications, 2013, 11, 386-392.	0.8	9
18	Rhythmic-Reflex Hybrid Adaptive Walking Control of Biped Robot. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 94, 603-619.	3.4	9

#	ARTICLE	IF	CITATIONS
19	LedMapper: Toward Efficient and Accurate LED Mapping for Visible Light Positioning at Scale. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	9
20	Efficient walking gait with different speed and step length: Gait strategies discovered by dynamic optimization of a biped model. Journal of Mechanical Science and Technology, 2017, 31, 1909-1919.	1.5	7
21	Humanoid adaptive locomotion control through a bioinspired CPG-based controller. Robotica, 2022, 40, 762-779.	1.9	7
22	RoboSeg: Real-Time Semantic Segmentation on Computationally Constrained Robots. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1567-1577.	9.3	7
23	Walking control strategy for biped robots based on central pattern generator. , 2012, , .		6
24	Active balance of humanoids with foot positioning compensation and non-parametric adaptation. Robotics and Autonomous Systems, 2016, 75, 297-309.	5.1	6
25	Workspace Trajectory Generation Method for Humanoid Adaptive Walking With Dynamic Motion Primitives. IEEE Access, 2020, 8, 54652-54662.	4.2	5
26	Foot Placement Compensator Design for Humanoid Walking Based on Discrete Control Lyapunov Function. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2332-2341.	9.3	5
27	A Vestibular System Model for Robots and Its Application in Environment Perception. , 2010, , .		4
28	A trajectory generation method for biped walking based on neural oscillators. , 2016, , .		4
29	Fuzzy-model-based H _∞ dynamic output feedback control with feedforward for autonomous vehicle path tracking. , 2017, , .		4
30	Locomotion control of quadruped robots based on central pattern generators. , 2011, , .		3
31	Rate-position-point hybrid control mode for teleoperation with force feedback. , 2016, , .		3
32	Active balance of humanoid movement based on dynamic task-prior system. International Journal of Advanced Robotic Systems, 2017, 14, 172988141771079.	2.1	3
33	Locomotion control of quadruped robots based on CPG-inspired workspace trajectory generation. , 2011, , .		2
34	Effects of upper body parameters on biped walking efficiency studied by dynamic optimization. International Journal of Advanced Robotic Systems, 2017, 14, 172988141668270.	2.1	2
35	Geometry-Constrained Scale Estimation for Monocular Visual Odometry. IEEE Transactions on Multimedia, 2022, 24, 3144-3156.	7.2	2
36	Navigation in Multi-Agent System With Side Preference Path Optimizer. IEEE Access, 2021, 9, 113944-113953.	4.2	2

#	ARTICLE	IF	CITATIONS
37	Channel attention and multi-scale graph neural networks for skeleton-based action recognition. <i>AI Communications</i> , 2022, 35, 187-205.	1.2	2
38	Evolution of neural oscillator network for the biped walking control of a four-link robot. , 2015, , .		1
39	Locomotion control of seven-link robot with CPG-ZMP. , 2016, , .		1
40	Self-balanced motion planning for humanoid robot based on dynamic multitasking mechanism. , 2016, , .		1
41	Visual Recognition of Container Number with Arbitrary Orientations Based on Deep Convolutional Neural Network. , 2018, , .		1
42	Fuzzy model-based controller synthesis for networked nonlinear systems with event triggering communication scheme. <i>International Journal of Systems Science</i> , 2019, 50, 379-391.	5.5	1
43	Efficient and robust approaches for three-dimensional sound source recognition and localization using humanoid robots sensor arrays. <i>International Journal of Advanced Robotic Systems</i> , 2020, 17, 172988142094135.	2.1	1
44	Real-Time Lightweight CNN in Robots with Very Limited Computational Resources: Detecting Ball in NAO. <i>Lecture Notes in Computer Science</i> , 2019, , 24-34.	1.3	1
45	Sensor-Free Method with BP Network to Achieve Drag Teaching on the 7-DoF Collaborative Robot. , 2021, , .		1
46	The pitch-reciprocal screw relating a twist and an actuating wrench. , 2016, , .		0
47	Jacobian analysis for lower mobility parallel robots based on actuating wrenches. , 2016, , .		0
48	Disturbance rejection based on momentum compensation for humanoid robots. , 2017, , .		0
49	Online Learning Upper Body Posture Control for Humanoid Walking Based on BPNN. , 2020, , .		0
50	Nonlinear Fitting Correction of Binocular Ranging Error for Visual SLAM. , 2021, , .		0
51	Multi-Agents Based Safe Path Planning of Autonomous Mobile Robots in Smart Factories. , 2021, , .		0